

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
September
2013

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project (SWP) has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Contractors, public agencies, consultants, and others with the daily and monthly status of SWP's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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The organization shown above represents staff and positions relevant to this report as of month of publication, January 2015. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities, actions, and conditions affected State Water Project (SWP) operations during September 2013:

Statewide precipitation was about 80 percent of average for water year 2012 – 2013 through September 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: [“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources (DWR) in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the State's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. September snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for water year 2012 – 2013 was 11.9 maf, 65 percent of average. Statewide runoff for water year 2012 – 2013 was 60 percent of average.

Statewide reservoir storage was 80 percent of average to date. Total storage in major SWP reservoirs at the end of September was about 2.51 maf compared to 2.79 maf at this time in 2012. On September 30, end-of-month storage at Lake Oroville was about 1.63 maf, as compared to 1.97 maf at this time in 2012. The State share of San Luis Reservoir's end-of-month storage was about 281 taf, as compared with 389 taf at this time in 2012. The combined storage in SWP's southern reservoirs was about 597 taf, compared with about 433 taf at this time in 2012.

The cumulative SWP water deliveries to date through September were about 2.36 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2012 were 3.31 maf.

By mutual agreement between the U.S. Bureau of Reclamation (USBR) and DWR in accordance with Article 6(h) of the Coordinated Operation Agreement (COA), conditions remained “Balanced” with accounting throughout September. The end-of-month USBR COA balance was 111,943 cfs in favor of USBR.

There were five measurable earthquakes within the vicinity of the SWP in September; however, no facilities were found to meet inspection criteria.

During the month of September, there was no fish salvage reported.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	4,997.73	18,787									
1	4,997.69	18,754	-33	20	0	0	0	15	35	18	
2	4,997.80	18,714	-40	20	0	0	0	15	35	15	
3	4,997.80	18,845	131	20	0	0	0	15	35	101	
4	4,997.75	18,804	-41	20	0	0	0	15	35	14	
5	4,997.69	18,754	-50	20	0	0	0	15	35	10	
6	4,997.64	18,712	-42	20	0	0	0	15	35	14	
7	4,997.60	18,679	-33	20	0	0	0	13	33	16	
8	4,997.55	18,637	-42	20	0	0	0	10	30	9	
9	4,997.52	18,611	-26	20	0	0	0	10	30	17	
10	4,997.45	18,554	-57	20	0	0	0	10	30	1	
11	4,997.40	18,512	-42	20	0	0	0	10	30	9	
12	4,997.36	18,479	-33	20	0	0	0	10	30	13	
13	4,997.34	18,439	-40	20	0	0	0	10	30	10	
14	4,997.30	18,429	-10	20	0	0	0	10	30	25	
15	4,997.25	18,388	-41	20	0	0	0	10	30	9	
16	4,997.18	18,330	-58	20	0	0	0	10	30	1	
17	4,997.13	18,289	-41	20	0	0	0	10	30	9	
18	4,997.08	18,247	-42	20	0	0	0	10	30	9	
19	4,997.04	18,214	-33	20	0	0	0	10	30	13	
20	4,997.00	18,182	-32	20	0	0	0	10	30	14	
21	4,996.94	18,133	-49	20	0	0	0	10	30	5	
22	4,996.89	18,092	-41	20	0	0	0	10	30	9	
23	4,996.84	18,051	-41	20	0	0	0	10	30	9	
24	4,996.80	18,018	-33	20	0	0	0	10	30	13	
25	4,996.79	18,010	-8	20	0	0	0	10	30	26	
26	4,996.75	17,977	-33	20	0	0	0	10	30	13	
27	4,996.70	17,937	-40	20	0	0	0	10	30	10	
28	4,996.68	17,920	-17	20	0	0	0	10	30	21	
29	4,996.64	17,888	-32	20	0	0	0	10	30	14	
30	4,996.58	17,839	-49	20	0	0	0	10	30	5	
Total cfs-days				600	0	0	0	333	933	455	
Total ac-ft				-948	1,190	0	0	660	1,850	902	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Aug 31	5,567.73	28,924									
1	5,567.69	28,910	-14	2	5	0	0	15	22	15	
2	5,567.65	28,869	-41	2	5	0	0	15	22	1	
3	5,567.62	28,801	-68	2	2	0	0	15	19	-15	
4	5,567.59	28,778	-23	2	2	0	0	15	19	7	
5	5,567.55	28,736	-42	2	2	0	0	15	19	-2	
6	5,567.55	28,736	0	2	2	0	0	15	19	19	
7	5,567.55	28,728	-8	2	2	0	0	15	19	15	
8	5,567.53	28,728	0	2	2	0	0	15	19	19	
9	5,567.52	28,705	-23	2	2	0	0	15	19	7	
10	5,567.50	28,684	-21	2	2	0	0	15	19	8	
11	5,567.46	28,643	-41	2	2	0	0	15	19	-2	
12	5,567.42	28,601	-42	1	1	0	0	15	17	-4	
13	5,567.41	28,581	-20	1	1	0	0	15	17	7	
14	5,567.39	28,570	-11	1	1	0	0	15	17	11	
15	5,567.35	28,528	-42	1	1	0	0	15	17	-4	
16	5,567.33	28,516	-12	2	2	0	0	15	19	13	
17	5,567.28	28,456	-60	2	2	0	0	15	19	-11	
18	5,567.27	28,445	-11	2	2	0	0	15	19	13	
19	5,567.25	28,424	-21	2	2	0	0	15	19	8	
20	5,567.19	28,362	-62	2	2	0	0	15	19	-12	
21	5,567.18	28,352	-10	2	2	0	0	15	19	14	
22	5,567.17	28,342	-10	2	2	0	0	15	19	14	
23	5,567.15	28,321	-21	2	2	0	0	15	19	8	
24	5,567.10	28,269	-52	2	2	0	0	15	19	-7	
25	5,567.11	28,280	11	2	2	0	0	15	19	25	
26	5,567.09	28,259	-21	2	2	0	0	15	19	8	
27	5,567.06	28,228	-31	2	2	0	0	15	19	3	
28	5,567.03	28,197	-31	2	2	0	0	10	14	-2	
29	5,567.00	28,166	-31	2	2	0	0	10	14	-2	
30	5,566.97	28,135	-31	2	2	0	0	9	13	-3	
Total cfs-days				56	62	0	0	434	552	154	
Total ac-ft				-789	111	123	0	861	1,095	306	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Aug 31	5,768.24	59,501									
1	5,768.23	59,479	-22	8	2	1	0	45	56	45	
2	5,768.35	59,446	-33	8	2	1	0	45	56	39	
3	5,768.31	59,713	267	7	2	2	0	45	56	191	
4	5,768.30	59,701	-12	7	2	2	0	45	56	50	
5	5,768.28	59,679	-22	8	2	1	0	45	56	45	
6	5,768.25	59,535	-144	8	2	1	0	45	56	-17	
7	5,768.20	59,368	-167	8	2	1	0	45	56	-28	
8	5,768.19	59,338	-30	8	2	1	0	45	56	41	
9	5,768.17	59,269	-69	8	2	1	0	45	56	21	
10	5,768.14	59,169	-100	7	2	2	0	45	56	5	
11	5,768.13	59,136	-33	7	2	2	0	45	56	39	
12	5,768.11	59,070	-66	7	2	2	0	45	56	23	
13	5,768.10	59,048	-22	7	2	2	0	45	56	45	
14	5,768.09	59,004	-44	7	2	2	0	45	56	34	
15	5,768.05	58,871	-133	7	2	1	0	45	56	-11	
16	5,768.03	58,805	-66	7	2	1	0	45	56	23	
17	5,768.01	58,739	-66	7	2	2	0	45	56	23	
18	5,767.99	58,673	-66	7	2	2	0	45	56	23	
19	5,767.98	58,640	-33	7	2	2	0	45	56	39	
20	5,767.97	58,607	-33	7	2	2	0	40	51	34	
21	5,767.96	58,574	-33	7	2	1	0	45	55	39	
22	5,767.95	58,541	-33	7	2	1	0	40	50	33	
23	5,767.94	58,508	-33	7	2	1	0	40	51	34	
24	5,767.93	58,475	-33	7	2	1	0	40	50	34	
25	5,767.92	58,442	-33	7	2	1	0	40	50	33	
26	5,767.91	58,409	-33	7	2	1	0	40	50	34	
27	5,767.90	58,376	-33	8	2	1	0	40	51	34	
28	5,767.89	58,343	-33	8	2	1	0	40	51	34	
29	5,767.88	58,310	-33	8	2	1	0	39	50	33	
30	5,767.87	58,277	-33	8	2	1	0	39	50	33	
Total cfs-days				220	63	39	0	1,298	1,620	1,003	
Total ac-ft				-1,224	436	125	78	0	2,575	3,214	1,990

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes Plumas County and Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation
(in acre-feet except as noted)
Capacity: 3,537,580 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Aug 31	761.12	1,783,566										
	1	760.57	1,778,219	-5,347	8,029	26	0	1	217	0	8,273	0
	2	760.03	1,772,980	-5,239	8,036	26	0	1	228	0	8,291	0
	3	759.04	1,763,396	-9,584	12,578	26	0	1	150	0	12,755	0
	4	757.78	1,751,249	-12,147	15,368	26	0	1	202	0	15,597	0
	5	756.38	1,737,821	-13,428	15,628	26	0	1	188	0	15,843	0
	6	755.16	1,726,180	-11,641	14,928	26	0	1	231	0	15,186	0
	7	754.10	1,716,110	-10,070	12,785	26	0	1	192	0	13,004	0
	8	753.06	1,706,271	-9,839	12,828	26	0	1	192	0	13,047	0
	9	752.82	1,704,006	-2,265	5,317	26	0	1	446	0	5,790	0
	10	752.27	1,698,824	-5,182	7,786	26	0	1	274	0	8,087	0
	11	751.91	1,695,438	-3,386	6,094	26	0	1	202	0	6,323	0
	12	751.68	1,693,278	-2,160	4,412	26	0	1	139	0	4,578	0
	13	751.52	1,691,776	-1,502	4,879	26	0	1	139	0	5,045	0
	14	751.54	1,691,963	187	3,968	26	0	1	126	0	4,121	0
	15	751.44	1,691,025	-938	3,942	26	0	1	126	0	4,095	0
	16	750.66	1,683,719	-7,306	6,464	26	0	1	233	0	6,724	0
	17	750.13	1,678,767	-4,952	5,663	24	0	1	170	0	5,858	0
	18	749.67	1,674,478	-4,289	5,423	24	0	1	157	0	5,605	0
	19	749.24	1,670,475	-4,003	4,908	24	0	1	219	0	5,152	0
	20	748.71	1,665,551	-4,924	5,300	24	0	1	182	0	5,507	0
	21	748.30	1,661,749	-3,802	4,980	24	0	1	112	0	5,117	0
	22	747.84	1,657,490	-4,259	4,979	24	0	1	125	0	5,129	0
	23	747.48	1,654,163	-3,327	4,988	22	0	1	112	0	5,123	0
	24	746.59	1,645,957	-8,206	8,921	20	0	1	137	0	9,079	0
	25	746.22	1,642,554	-3,403	4,352	17	0	1	111	0	4,481	0
	26	745.95	1,640,074	-2,480	3,691	16	0	1	124	0	3,832	0
	27	745.62	1,637,046	-3,028	4,094	16	0	0	161	0	4,271	0
	28	745.59	1,636,771	-275	2,185	16	0	0	111	0	2,312	0
	29	745.56	1,636,496	-275	2,178	16	0	0	93	0	2,287	0
	30	745.21	1,633,290	-3,206	4,046	16	0	0	210	0	4,272	0
Total				-150,276	208,750	699	0	26	5,309	0	214,784	0
5												
1/ Includes bypass flows												
2/ South Feather Water and Power Agency												
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.												
4/ Does not include pumpback.												

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft			Daily Operation (in acre-feet except as noted)								September 2013	
Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)	
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Water and Sewer	Releases To River 4/	Hyatt Powerplant Pumpback		
Aug 31	23,652											
	1	23,608	-44	8,029	438	0	7,140	2	9	2,013	0	653
	2	23,080	-528	8,036	431	0	7,691	2	9	2,025	0	732
	3	23,591	511	12,578	438	0	11,434	2	9	2,043	0	983
	4	24,273	682	15,368	482	0	14,182	2	9	2,049	0	1,074
	5	24,246	-27	15,628	401	0	15,173	2	9	2,057	0	1,185
	6	24,166	-80	14,928	431	0	14,625	6	9	2,053	0	1,254
	7	24,172	6	12,785	430	0	12,320	7	9	2,053	0	1,180
	8	24,206	34	12,828	415	0	12,320	7	9	2,053	0	1,180
	9	24,262	56	5,317	486	0	4,220	7	9	2,049	0	538
	10	23,998	-264	7,786	417	0	7,114	7	9	2,053	0	716
	11	23,456	-542	6,094	482	0	5,559	7	9	2,047	0	504
	12	23,836	380	4,412	427	0	2,749	7	9	2,031	0	337
	13	24,990	1,154	4,879	481	0	2,439	7	9	2,061	0	310
	14	24,586	-404	3,968	482	0	2,997	7	9	2,081	0	240
	15	24,169	-417	3,942	482	0	2,997	7	8	2,067	0	238
	16	24,316	147	6,464	482	0	5,187	7	8	2,073	0	476
	17	24,297	-19	5,663	482	0	4,528	7	8	2,079	0	458
	18	22,494	-1,803	5,423	482	0	6,170	7	8	2,061	0	538
	19	20,987	-1,507	4,908	481	0	5,435	7	8	2,025	0	579
	20	21,145	158	5,300	482	0	3,989	7	8	2,033	0	413
	21	21,113	-32	4,980	482	0	3,989	7	8	2,047	0	557
	22	21,034	-79	4,979	481	0	3,989	7	8	2,043	0	508
	23	20,960	-74	4,988	482	0	3,989	7	8	2,043	0	503
	24	24,677	3,717	8,921	142	0	3,989	7	8	2,069	0	727
	25	23,675	-1,002	4,352	149	0	3,745	7	8	2,061	0	318
	26	24,126	451	3,691	487	0	1,943	6	8	2,059	0	289
	27	24,794	668	4,094	486	0	2,118	6	8	2,055	0	275
	28	24,057	-737	2,185	484	0	1,510	6	8	2,053	0	171
	29	23,616	-441	2,178	466	0	1,222	6	8	2,051	0	202
	30	23,788	172	4,046	416	0	2,612	6	8	2,059	0	395
Total			136	208,750	13,207	0	177,375	179	254	61,544	0	17,531

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Aug 31	134.16	47,353											
1	133.01	42,880	-4,473	7,140	1,847	8	105	444	8,985	0	-224	10,998	
2	131.95	38,938	-3,942	7,691	1,809	8	101	446	8,926	0	-343	10,951	
3	131.89	38,720	-218	11,434	1,710	6	97	401	8,886	0	-552	10,929	
4	132.68	41,634	2,914	14,182	1,611	6	97	337	8,886	0	-331	10,935	
5	133.70	45,541	3,907	15,173	1,575	6	87	305	8,886	0	-407	10,943	
6	134.58	49,033	3,492	14,625	1,390	6	81	258	8,886	0	-512	10,939	
7	134.91	50,371	1,338	12,320	1,289	6	77	226	8,886	0	-498	10,939	
8	135.24	51,726	1,355	12,320	1,283	6	77	222	8,866	0	-511	10,919	
9	133.90	46,326	-5,400	4,220	1,281	6	77	222	7,914	0	-120	9,963	
10	133.77	45,815	-511	7,114	1,230	6	74	196	5,970	0	-149	8,023	
11	133.68	45,463	-352	5,559	1,168	5	50	157	4,403	0	-128	6,450	
12	133.05	43,032	-2,431	2,749	1,087	5	19	137	3,967	0	35	5,998	
13	132.32	40,294	-2,738	2,439	1,073	5	0	115	3,987	0	3	6,048	
14	131.77	38,286	-2,008	2,997	1,047	5	0	97	3,987	0	131	6,068	
15	131.20	36,256	-2,030	2,997	1,045	4	0	91	4,007	0	120	6,074	
16	131.35	36,785	529	5,187	1,029	2	0	91	3,491	0	-45	5,564	
17	131.42	37,033	248	4,528	996	0	0	198	2,817	0	-269	4,896	
18	132.10	39,485	2,452	6,170	990	0	0	296	2,400	0	-32	4,461	
19	132.62	41,409	1,924	5,435	956	0	0	296	2,003	0	-256	4,028	
20	132.96	42,690	1,281	3,989	920	0	34	303	1,644	0	193	3,677	
21	133.32	44,066	1,376	3,989	912	0	66	301	1,525	0	191	3,572	
22	133.61	45,189	1,123	3,989	909	0	66	301	1,519	0	-71	3,562	
23	133.94	46,484	1,295	3,989	855	0	66	303	1,521	0	51	3,564	
24	134.27	47,791	1,307	3,989	811	0	66	303	1,508	0	6	3,577	
25	134.59	49,073	1,282	3,745	801	0	66	299	1,508	0	211	3,569	
26	134.41	48,350	-723	1,943	734	0	66	297	1,508	0	-61	3,567	
27	134.36	48,150	-200	2,118	680	0	68	297	1,509	0	236	3,564	
28	134.16	47,353	-797	1,510	682	0	70	298	1,504	0	247	3,557	
29	133.86	46,168	-1,185	1,222	684	0	70	294	1,494	0	135	3,545	
30	133.84	46,090	-78	2,612	716	0	70	329	1,507	0	-68	3,566	
Total				-1,263	177,375	33,120	90	1,650	7,860	132,900	0	-3,018	194,444

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

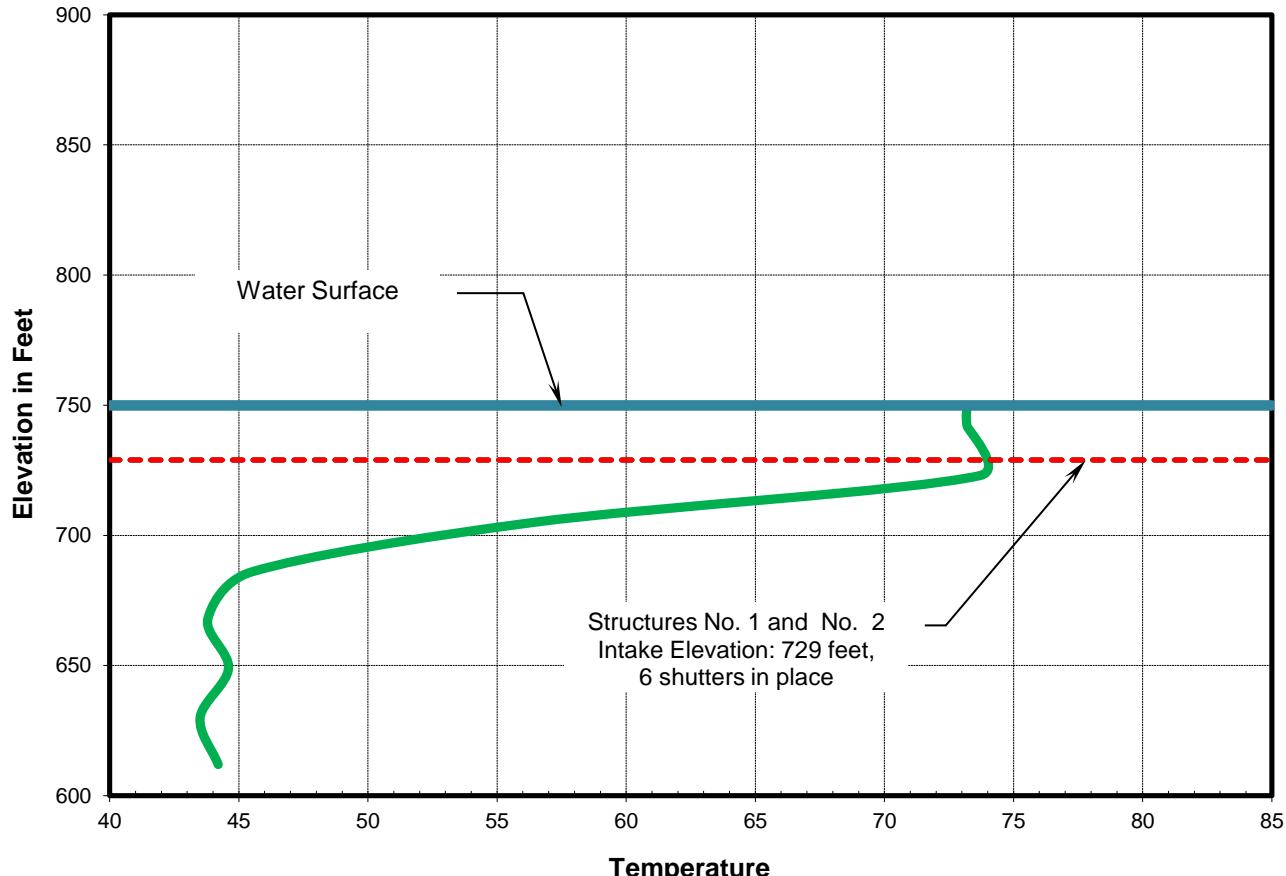
Water Temperature Data

(in degrees Fahrenheit)

September 2013

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	62.1	48.9
2	62.8	48.6
3	63.4	49.1
4	62.2	51.0
5	59.0	52.1
6	59.1	53.2
7	57.6	53.6
8	58.2	53.4
9	58.9	54.0
10	57.9	54.0
11	58.5	53.3
12	60.0	52.2
13	61.0	50.7
14	61.3	50.2
15	61.4	49.4
16	63.2	49.4
17	63.2	49.9
18	65.1	49.6
19	63.7	53.9
20	63.6	55.1
21	62.7	51.0
22	61.8	49.3
23	61.5	49.6
24	61.7	49.9
25	63.6	49.2
26	62.8	49.5
27	62.0	50.0
28	61.6	50.9
29	61.3	50.6
30	61.8	50.5

**Lake Oroville Temperature Profile
on September 18, 2013**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)						September 2013						
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries							
	Beginning and Ending				Table A	Permit	Pool A	Article 56	Settlement Water			
	No.	Structure	Mile									
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,588							
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	229		229					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	391			391				
				Solano County Water Agency Fairfield / Vacaville 42"	1,809	425		1,384				
			17.00	Solano County Water Agency Central Solano	Stub							
3A	2	Cordelia Forebay	21.23		0							
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,062							
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,294		1294					
				Solano County Water Agency Benicia	1,127			1,127				
		Cordelia Surge Tank	23.33		0							
		Creston Surge Tank Connection	25.65		0							
3B	2		26.95	Napa County Flood Control & WCD American Canyon 2	4	4						
				Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	343	343						
			27.60	Napa County Flood Control & WCD American Canyon 1	294	194	100					

Table 9. Delta Field Division Plant Data

(in acre-feet)

September 2013

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	233	133	10,579	9,589	28	0	509	0	0	0
2	227	129	9,726	8,736	127	0	454	0	0	0
3	200	102	9,896	8,906	0	0	283	0	0	0
4	196	101	10,550	9,560	0	0	149	0	0	0
5	210	115	10,188	9,198	0	0	328	0	0	0
6	211	118	9,523	8,533	0	0	422	0	0	0
7	213	117	7,477	6,487	0	0	449	0	0	0
8	204	112	7,482	6,492	256	0	448	0	0	177
9	195	98	7,856	6,866	241	0	357	0	0	198
10	204	113	6,090	5,100	106	0	342	0	0	198
11	205	115	5,643	4,653	0	0	335	0	0	199
12	204	116	4,860	3,870	0	0	442	0	0	199
13	200	111	3,968	2,978	0	0	448	0	0	199
14	174	88	3,968	2,978	0	0	448	0	0	200
15	168	80	3,150	2,160	0	0	449	0	0	187
16	174	88	3,696	2,706	0	0	445	0	0	200
17	173	94	4,970	3,980	0	0	446	0	0	199
18	190	105	6,171	5,895	0	0	444	0	0	199
19	196	109	5,723	4,733	0	0	456	0	0	199
20	194	109	5,095	4,105	0	0	449	0	0	199
21	164	86	5,060	4,070	0	0	449	0	0	199
22	144	79	4,753	3,763	0	0	448	0	0	199
23	149	76	6,794	5,804	0	0	448	0	0	199
24	147	80	8,773	7,783	0	0	438	0	0	198
25	155	81	8,010	7,020	0	0	359	0	0	199
26	158	87	7,928	6,938	0	0	359	0	0	226
27	175	107	4,837	4,837	0	0	360	0	0	249
28	178	109	4,942	4,942	0	0	379	0	0	0
29	189	113	3,768	3,768	0	0	450	0	0	0
30	158	91	3,786	3,786	0	0	486	0	0	200
Total	5,588	3,062	195,262	170,236	758	0	12,279	0	0	4,222

Table 10. Clifton Court Forebay

Daily Operation of Gates

Date	Time											Amount of inflow in Acre-Feet
	Opened	Closed	Opened									
1	00:01	01:15	03:30	11:00	14:00	19:25						10,901
2	00:01	11:30	14:30	19:45								10,907
3	00:01	03:30	06:00	12:15	15:15	18:55						9,916
4	00:01	04:15	06:45	12:45	15:45	20:15						9,906
5	00:01	04:45	07:15	13:15	16:15	18:40						9,906
6	00:01	05:30	08:00	13:45	16:45	19:25						9,911
7	00:01	06:00	08:45	18:45								8,915
8	00:01	08:30	11:30	18:15								7,904
9	00:01	03:30	06:30	15:20								7,921
10	00:01	04:15	07:15	11:25								5,942
11	00:01	05:15	08:15	10:45								4,939
12	00:01	06:30	19:00	21:00								4,958
13	01:00	07:45	11:00	12:50								4,953
14	02:15	08:20										3,947
15	03:30	09:00										3,966
16	00:01	02:00	04:30	10:45	16:00	17:50						4,955
17	00:01	03:00	05:30	11:30	16:00	18:50						4,947
18	06:30	12:15	16:00	17:30								4,955
19	00:01	04:30	07:30	12:45	16:10	18:10						5,937
20	00:01	01:15	04:15	17:30								5,939
21	00:01	02:00	05:00	10:05								3,964
22	00:01	02:45	05:45	08:20								3,958
23	00:01	03:30	06:45	17:45								7,913
24	00:01	04:30	07:30	18:00								8,914
25	00:01	05:15	08:15	17:45								8,913
26	00:01	06:15	09:15	15:55								7,930
27	00:45	07:30	10:30	16:10								4,945
28	01:25	08:30	11:30	16:00								4,942
29	02:45	09:30	13:00	15:35								3,961
30	00:01	01:45	03:45	08:30								3,953
Total inflow for the month in AF:												201,018

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)						September 2013						
Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending				Table A USBR Local Loan Water Article 56							
	No.	Structure	Mile									
1A			1.83	Byron-Bethany I.D.	2,726			2,726				
1	1	Banks Pumping Plant	3.32		195,262							
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	12,279							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
2A	2	Delta Mendota Canal - California Aqueduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	758							
				Outflow to Delta Mendota Canal from California Aqueduct	0							
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	46		46					
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	42	7				35		
			42.9	Western Hills WD	135	135						
			43.81	Oak Flat Water District-B	32	32						
			44.64	Oak Flat Water District-C	74	74						
	9	Check No. 8	45.97									
			46.18	Oak Flat Water District-D	90	90						
	10			Oak Flat Totals:	238	203	0	0	0	35		
		Check No. 9	51.3									
	11	Check No. 10	56.86									
	12	Check No. 11	61.4									
			66.14	Veteran's Cemetery	32	32						
		Check No. 12	66.71		183,033							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)							September 2013					
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Article 56	Pool MP	Local	Rec.	Other	
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	12,279							
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	11	11						
	2	Check No. 1	3.91									
		Check No. 2	5.21									
				Zone 7 Altamont	19	19						
2	4	Check No. 3	9.49	Zone 7 Patterson Storage Exchange	0							
				Zone 7 Patterson Project Water	1,055					817	1/ 238	
	5	Check No. 4	10.68									
		Check No. 5	12.29									
				Zone 7 Wente #1	151	151						
	6		13.55	Zone 7 Wente #2	86	86						
				Cobett Ising Project Water	55	55						
	7	Check No. 6	14.65									
				Zone 7 Arroyo Mocho Project Water	501					501		
		Check No. 7	16.38									
4	8	Del Valle Branch Pipeline Junction	18.63	Zone 7 Wente #3	0							
				Zone 7 Wente #4	73	73						
				Zone 7 Norman Nursery	3	3						
		Deliveries through Del Valle Branch Pipeline	18.63	Zone 7 Concannon Project Water	34	34						
				Pumped into Lake Del Valle	0							
				Pumped into South Bay Aqueduct	0							
		Deliveries through Del Valle Branch Pipeline	18.63	Gravity into South Bay Aqueduct	4,222							
				Arroyo Valle #1 & #2 Storage Exchange:	46					46		
				Project Water	295	295						
5	9			Storage Released	0							
				Inflow Release	198					198		
				East Bay Regional Park Dist.								
				Del Valle Recreation	22					22		
				Zone 7 Wente #5	76	76						
				So. Livermore Project	2,710		396	1,000			2/ 1,314	
6			19.20	So. Livermore Inflow Released	0							
				So. Livermore Stored Exchanged	0							
				Zone 7 - Kalthof Detjens	0							
7		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0							
				City of San Francisco San Antonio	0							
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water	2,433	214	2,219					
				Storage Released	0							
9		Santa Clara Pipeline	35.86	Storage Exchange: Meter	8,698			828			3/ 7,870	

1/ Transfer from Non-SWP contractor to SWP contractor.

2/ This includes Article 14B 914 AF and Dry Year Purchase water of 400 AF.

3/ Semitropic Waterbank recovery.

Table 13. Lake Del Valle Daily Operation (in acre-feet except as noted)											September 2013
Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Aug 31	698.84	37,039									
	1	698.80	37,012	-27	-12	0	0	0	1	14	15
	2	698.43	36,762	-250	-234	0	0	0	1	15	16
	3	698.24	36,635	-127	-117	0	0	0	1	9	10
	4	698.02	36,487	-148	-136	0	0	0	1	11	12
	5	697.73	36,294	-193	-179	0	0	0	1	13	14
	6	697.50	36,140	-154	-140	0	0	0	1	13	14
	7	697.35	36,041	-99	-84	0	0	0	1	14	15
	8	697.09	35,868	-173	22	0	0	177	1	17	195
	9	696.83	35,696	-172	44	0	0	198	1	17	216
	10	696.61	35,551	-145	69	0	0	198	1	15	214
	11	696.40	35,413	-138	73	0	0	199	1	11	211
	12	696.20	35,281	-132	75	0	0	199	1	7	207
	13	696.05	35,183	-98	113	0	0	199	1	11	211
	14	695.61	34,896	-287	-74	0	0	200	1	12	213
	15	695.41	34,767	-129	67	0	0	187	1	8	196
	16	695.35	34,728	-39	173	0	0	200	1	11	212
	17	694.89	34,431	-297	-87	0	0	199	1	10	210
	18	694.80	34,374	-57	153	0	0	199	1	10	210
	19	694.45	34,149	-225	-11	0	0	199	1	14	214
	20	694.15	33,958	-191	22	0	0	199	1	13	213
	21	693.93	33,818	-140	68	0	0	199	1	8	208
	22	693.75	33,704	-114	88	0	0	199	1	2	202
	23	693.50	33,545	-159	47	0	0	199	0	7	206
	24	693.38	33,469	-76	130	0	0	198	0	8	206
	25	693.15	33,324	-145	63	0	0	199	0	9	208
	26	692.90	33,167	-157	78	0	0	226	0	9	235
	27	692.70	33,042	-125	133	0	0	249	0	9	258
	28	692.50	32,917	-125	-116	0	0	0	0	9	9
	29	692.30	32,792	-125	-114	0	0	0	0	11	11
	30	692.10	32,668	-124	84	0	0	200	0	8	208
Total				-4,371	198	0	0	4,222	22	325	4,569
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											3/ To East Bay Regional Park District.
2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.											NR=No Records

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

3/ To East Bay Regional Park District.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations
September 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/	
Aug 31	222.12	48,703										
1	222.13	48,730	27	0	2,681	0	4,953	0	4,383	3,142	21	-74
2	222.30	49,182	452	0	2,678	0	4,894	0	4,366	2,996	20	38
3	221.77	47,782	-1,400	0	2,248	0	4,893	0	4,326	3,545	20	44
4	221.01	45,787	-1,995	0	1,032	0	4,928	0	3,233	3,587	20	-126
5	221.09	45,996	209	0	1,496	0	5,155	0	2,880	3,595	3	-68
6	221.72	47,651	1,655	0	1,492	0	4,436	0	1,437	3,643	3	-11
7	221.11	46,049	-1,602	0	1,972	0	3,360	0	2,845	3,123	3	-169
8	221.31	46,574	525	0	2,404	0	3,935	0	2,821	3,238	3	-12
9	222.27	49,102	2,528	0	2,508	0	3,929	0	1,997	2,933	3	-229
10	221.44	46,915	-2,187	0	2,203	0	3,001	0	2,827	3,453	3	-24
11	222.48	49,660	2,745	0	1,684	765	2,634	0	0	3,563	3	-133
12	221.19	46,259	-3,401	0	1,449	0	2,270	0	1,775	3,782	6	129
13	222.62	50,033	3,774	0	1,486	2,676	1,726	0	241	3,587	6	-151
14	222.96	50,939	906	0	940	2,671	1,769	0	707	4,384	6	174
15	222.22	48,969	-1,970	0	529	0	1,626	0	0	3,046	6	-96
16	222.96	50,939	1,970	0	743	2,030	1,479	0	0	3,114	6	-139
17	222.60	49,980	-959	0	631	0	2,068	0	0	3,165	6	-11
18	222.54	49,820	-160	0	573	0	2,750	0	0	3,321	6	-77
19	222.37	49,368	-452	0	444	0	2,719	0	0	3,230	3	-158
20	222.33	49,261	-107	0	425	0	2,395	0	0	2,760	3	-111
21	223.11	51,340	2,079	0	946	1,010	2,157	0	0	2,880	3	-182
22	222.48	49,660	-1,680	0	1,594	0	2,116	0	1,450	3,242	3	138
23	223.80	53,189	3,529	0	1,122	189	3,270	0	0	2,974	3	175
24	222.67	50,166	-3,023	0	688	0	3,923	0	2,903	3,358	3	129
25	222.10	48,650	-1,516	0	549	0	4,186	0	2,865	2,728	3	97
26	221.82	47,914	-736	0	1,077	0	3,875	0	1,944	3,535	2	158
27	220.64	44,818	-3,096	0	1,056	0	2,059	0	1,405	3,141	2	-128
28	222.06	48,544	3,726	0	1,084	1,533	2,551	0	0	3,137	2	-151
29	222.56	49,873	1,329	0	1,202	1,530	1,555	0	0	3,480	2	-135
30	223.58	52,598	2,725	0	1,006	1,518	1,666	0	0	3,000	2	186
				0								
Total			3,895	0	39,942	13,922	92,278	0	44,405	98,682	175	-917
Mean cfs				0	1,331	464	3,076	0	1,480	3,289	6	-31
Acre-feet			3,895	0	79,223	27,613	183,033	0	88,079	195,732	348	-1,815

1/ Pump-in located at Mile 79.67R.

2/ Includes 80 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 267 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

September 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Aug 31	392.52	464,705						
1	393.50	472,185	7,480	4,383	0	223	0.0	-389
2	394.50	479,863	7,678	4,366	0	246	0.0	-249
3	395.45	487,199	7,336	4,326	0	228	0.0	-399
4	396.15	492,631	5,432	3,233	0	232	0.0	-262
5	396.74	497,226	4,595	2,880	0	241	0.0	-322
6	396.97	499,022	1,796	1,437	0	251	0.0	-281
7	397.58	503,797	4,775	2,845	0	271	0.0	-167
8	398.17	508,431	4,634	2,821	0	240	0.0	-245
9	398.57	511,582	3,151	1,997	0	253	0.0	-155
10	399.15	516,163	4,581	2,827	0	233	0.0	-284
11	398.99	514,898	-1,265	0	765	226	0.0	353
12	399.21	516,638	1,740	1,775	0	204	0.0	-694
13	398.60	511,818	-4,820	241	2,676	208	0.0	213
14	398.09	507,802	-4,016	707	2,671	211	0.0	150
15	398.00	507,094	-708	0	0	192	0.0	-165
16	397.45	502,778	-4,316	0	2,030	218	0.0	72
17	397.34	501,916	-862	0	0	200	0.0	-235
18	397.25	501,212	-704	0	0	202	0.0	-153
19	397.19	500,742	-470	0	0	182	0.0	-55
20	397.11	500,117	-625	0	0	177	0.0	-138
21	396.79	497,617	-2,500	0	1,010	148	0.0	-102
22	396.95	498,866	1,249	1,450	0	131	0.0	-689
23	396.96	498,944	78	0	189	126	0.0	354
24	397.52	503,326	4,382	2,903	0	119	0.0	-575
25	398.10	507,880	4,554	2,865	0	111	0.0	-458
26	398.50	511,030	3,150	1,944	0	115	0.0	-241
27	398.78	513,239	2,209	1,405	0	129	0.0	-162
28	398.51	511,109	-2,130	0	1,533	127	0.0	586
29	398.10	507,880	-3,229	0	1,530	123	0.0	25
30	397.66	504,424	-3,456	0	1,518	212	0.5	-12
Total			39,719	44,405	13,922	5,779	0.5	-4,679
Mean cfs				1,480	464	193	0	-156
Acre-feet			39,719	88,079	27,613	11,462	1	-9,284

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 10,792 AF, Casa De Fruta 0 AF, and San Benito 1,157 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)								September 2013
Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project		
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal	
1	6,233	5,196	0	0	8,693	2,750	442	
2	5,943	4,894	0	0	8,660	5,695	487	
3	7,032	5,987	0	0	8,581	5,638	452	
4	7,115	6,075	0	0	6,413	3,470	460	
5	7,130	6,121	0	0	5,712	276	479	
6	7,226	6,273	0	0	2,850	172	498	
7	6,194	5,271	0	0	5,643	310	537	
8	6,423	6,096	0	0	5,595	301	477	
9	5,818	5,509	0	0	3,962	1,323	501	
10	6,850	6,528	0	0	5,607	239	462	
11	7,067	6,751	1,517	1,517	0	0	448	
12	7,502	7,180	0	0	3,521	-1,905	405	
13	7,114	6,795	5,308	5,308	479	-6	412	
14	8,696	8,353	5,298	5,298	1,403	41	419	
15	6,041	5,721	0	0	0	0	381	
16	6,176	5,850	4,027	4,027	0	0	433	
17	6,277	5,953	0	0	0	0	397	
18	6,587	6,257	0	0	0	0	400	
19	6,406	6,086	0	0	0	0	361	
20	5,474	5,153	0	0	0	0	352	
21	5,713	5,393	2,003	2,003	0	0	293	
22	6,430	6,087	0	0	2,876	178	259	
23	5,898	5,551	374	374	0	0	250	
24	6,660	6,313	0	0	5,759	3,023	237	
25	5,410	5,069	0	0	5,683	273	221	
26	7,011	6,664	0	0	3,855	1,218	229	
27	6,230	5,884	0	0	2,787	208	256	
28	6,222	5,874	3,040	3,040	0	0	251	
29	6,903	6,552	3,035	3,035	0	0	243	
30	5,951	5,553	3,011	3,011	0	0	420	
Total	195,732	180,989	27,613	27,613	88,079	23,204	11,462	

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

September 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	317.98	16,240					
1	318.00	16,249	9	5	0	0	-1
2	317.99	16,245	-4	0	0	0	-4
3	317.95	16,228	-17	0	0	0	-17
4	317.93	16,220	-8	0	0	0	-8
5	317.90	16,207	-13	0	0	0	-13
6	317.88	16,199	-8	0	0	0	-8
7	317.87	16,195	-4	0	0	0	-4
8	317.80	16,166	-29	0	0	0	-29
9	317.77	16,153	-13	0	0	0	-13
10	317.76	16,149	-4	0	0	0	-4
11	317.76	16,149	0	0	0	0	0
12	317.75	16,145	-4	0	0	0	-4
13	317.75	16,145	0	1	0	1	0
14	317.73	16,137	-8	0	0	0	-8
15	317.71	16,128	-9	0	0	0	-9
16	317.70	16,124	-4	0	0	0	-4
17	317.70	16,124	0	0	0	0	0
18	317.63	16,095	-29	0	0	0	-29
19	317.62	16,091	-4	0	0	0	-4
20	317.59	16,079	-12	0	0	0	-12
21	317.56	16,066	-13	0	0	0	-13
22	317.55	16,062	-4	0	0	0	-4
23	317.54	16,058	-4	0	0	0	-4
24	317.51	16,046	-12	0	0	0	-12
25	317.48	16,033	-13	0	0	0	-13
26	317.48	16,033	0	0	0	0	0
27	317.48	16,033	0	0	0	0	0
28	317.46	16,025	-8	0	0	0	-8
29	317.41	16,004	-21	0	0	0	-21
30	317.40	16,000	-4	0	0	0	-4
Total			-240	6	0	1	-250
Mean cfs				0	0	0	
Acre-feet			-240	12	0	2	-250

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

September 2013

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	602.40	815					
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	Not Observed						
5	Not Observed						
6	Not Observed						
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	602.40	815	0	0	0	0	0
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	602.40	815	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs				0	0	0	0
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)							September 2013						
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure											
2B	12	Check No. 12	66.71		183,033								
3A		San Luis Reservoir		Department of Parks and Recreation	1			1	0				
				San Felipe Division Santa Clara Water District	10,363	10,363							
				Casa de Fruita Santa Clara Water District	0								
				San Felipe Division San Benito Water District	1,099	1,099							
				Reach 3A Subtotal:	11,463	11,462	0	1	0				
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1			1	0				
				Cattle Program									
				Department of Fish & Game	80			44	36				
		(Floodwater Inflow)	70.91	San Luis Water District	267	267							
			85.08	(Floodwater Inflow)									
				Reach 3 Subtotal:	348	267	0	45	36				
		Dos Amigos Pumping Plant	86.73		195,732								
4	14		89.03	San Luis Water District	3,737	3,737							
			Thru 94.06										
			89.66	Pacheco Water District	517	517							
			89.67										
			89.68	Panoche Water District	37	37							
		City of Dos Palos	89.70		234	234							
			95.06										
			98.15	San Luis Water District	348	348							
			Thru 104.20										
			96.15	Panoche Water District	1,534	1,534							
			102.64	(Floodwater Inflow)									
			102.64	Broadview Water District	0								
		Westlands Water District	105.22		2,752	2,752							
			Thru 108.64										
		Check No.15	108.50										
			Reach 4 Subtotal:	9,159	9,159	0	0	0	0				
			San Felipe Division Total:	11,462	11,462	0	0	0	0				
			Pacheco Water District Total:	517	517	0	0	0	0				
			Broadview Water District Total:	0	0	0	0	0	0				
			City of Dos Palos Total:	234	234	0	0	0	0				
			SLWD Reach 4 Subtotal:	4,085	4,085	0	0	0	0				
			Panoche Water District Total:	1,571	1,571	0	0	0	0				
			SLWD Total:	4,352	4,352	0	0	0	0				
			Westlands WD Reach 4 Subtotal:	2,752	2,752	0	0	0	0				

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet) September 2013									
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries				
	Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation	
	No.	Structure	Mile						
5	16		110.52	(Reverse flow, Kings River)	0				
				Westlands Water District	3,559	3,559			
				Thru Dept. of Fish and Game @ Lat. 4L	1			1	
				Dept. of Fish and Game @ Lat. 6L	0				
				Dept. of Fish and Game @ Lat. 7L	0				
		Check No. 16	122.07						
	17		124.18	Westlands Water District	1,405	1,405			
			Thru 132.74						
	Check No. 17		132.95						
	18		133.81	Westlands Water District	3,943	3,943			
			Thru 142.61						
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	5,529	5,529			
			143.16	City of Coalinga	499	499			
		Check No. 18	143.23						
				Reach 5 Subtotal:	14,936	14,935	0	0	
6	19		145.26	GWF Energy	2	2			
				City of Huron	5	5			
				Kings County to Lemoore NAS Through WWD	266	1/ 266			
				Kings County through WWD 30L	0				
				Westlands Water District	2,158	2,158			
		Check No. 19	155.64						
				Reach 6 Subtotal:	2,431	2,165	266	0	
7	20		156.34	City of Huron	100	100			
				SWP Construction @ Lat. 24R	0				
			156.40	Westlands Water District	908	908			
		Check No. 20	163.69						
	21		164.69						
			164.79	City of Avenal	240	240			
			167.04	Westlands Water District	896	896			
		Check No. 21	171.67						
			172.40		104,616				
				Reach 7 Total:	2,144	2,144	0	0	
				2/ SWP Const. / GWF Energy	0	0	0	0	
				Westlands WD Total:	21,151	21,150	0	0	
				City of Coalinga Total:	499	499	0	0	
				City of Huron Total:	105	105	0	0	
				Kings County to Lemoore NAS Through WWD	266	0	266	0	
				City of Avenal Total:	240	240	0	0	
				Total San Luis Field Division Deliveries:	40,479	40,130	266	45	
								38	

1/ SWP water, from County of Kings to Westlands Water District, Table A.

2/ Includes GWF Energy water and DWR construction water 22R.

Table 20. Consolidated State-Federal San Luis Canal 1/

 Daily Operations
 September 2013

 United States
 Department of the Interior
 Bureau of Reclamation
 Central Valley Project

 State of California
 The Resources Agency
 Department of Water Resources
 State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Aug 31	28,817								
1	28,694	-123	0	3,142	104	27	548	2,798	273
2	28,572	-122	0	2,996	103	27	548	2,551	171
3	28,291	-281	0	3,545	103	27	548	3,080	71
4	28,903	612	0	3,587	103	27	548	2,680	80
5	28,907	4	0	3,595	78	26	384	2,994	-111
6	28,628	-279	0	3,643	78	26	384	3,248	-48
7	28,510	-118	0	3,123	78	26	384	2,699	5
8	28,677	167	0	3,238	78	26	384	2,664	-1
9	28,430	-247	0	2,933	78	26	384	2,737	167
10	28,376	-54	0	3,453	78	26	384	3,010	18
11	28,182	-194	0	3,563	78	26	384	3,194	21
12	28,507	325	0	3,782	79	25	333	2,964	-217
13	28,814	307	0	3,587	79	25	333	2,883	-112
14	28,895	81	0	4,384	79	25	333	3,621	-285
15	28,239	-656	0	3,046	79	25	333	3,001	62
16	28,927	688	0	3,114	79	25	333	2,377	46
17	28,678	-249	0	3,165	79	25	333	2,813	-40
18	28,041	-637	0	3,321	79	25	333	3,119	-86
19	28,513	472	0	3,230	63	29	318	2,477	-105
20	28,174	-339	0	2,760	63	29	318	2,450	-71
21	28,171	-3	0	2,880	63	29	315	2,566	91
22	28,536	365	0	3,242	63	29	315	2,552	-99
23	28,737	201	0	2,974	63	29	315	2,225	-240
24	28,776	39	0	3,358	63	29	315	2,604	-327
25	27,930	-846	0	2,728	63	29	315	2,550	-198
26	28,295	365	0	3,535	97	24	354	2,613	-263
27	27,910	-385	0	3,141	97	25	362	2,878	27
28	28,039	129	0	3,137	97	25	362	2,607	19
29	28,247	208	0	3,480	97	25	362	3,059	168
30	28,434	187	0	3,000	97	25	362	2,592	171
Total		-383	0	98,682	2,438	792	11,224	83,607	-813
Mean cfs			0	3,289	81	26	374	2,787	-27
Acre-feet		-383	0	195,732	4,836	1,571	22,263	165,834	-1,611

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 517 AF to Pacheco W.D., 234 AF to the City of Dos Palos and 4,085 AF to San Luis Water District.

3/ Includes 100 AF to the City of Huron, 240 AF to the City of Avenal, 499 AF to the City of Coalinga, 5 AF to City of Huron P&R @ 22R, 266 AF to Lemoore N.A.S. @ 29L, 2 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 1 AF to DFG @ 4L, 0 AF to Pilobos Wldlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DFG @ 7L, 0 AF Non-Project Water, 21,150 AF to Westlands Water District.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

September 2013

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	285	297	91	86	91	4,194	4,025	3,870	3,697
2	467	470	93	86	91	3,258	3,163	2,979	2,867
3	398	358	122	112	121	3,746	3,165	2,962	2,882
4	427	337	101	95	125	3,794	3,216	2,897	2,824
5	273	270	91	85	91	4,350	3,868	3,597	3,472
6	340	364	93	87	93	4,574	4,152	3,784	3,685
7	379	410	101	94	100	3,662	3,082	2,850	2,781
8	336	351	91	85	91	4,048	4,023	3,760	3,688
9	336	349	94	85	93	3,692	3,467	3,180	3,068
10	391	404	102	97	103	4,431	4,012	3,794	3,660
11	336	354	97	89	95	4,370	3,931	3,663	3,547
12	329	343	91	86	92	4,486	4,202	3,787	3,633
13	375	393	91	84	91	4,449	3,919	3,580	3,573
14	405	439	91	82	91	5,249	4,882	4,704	4,560
15	461	468	96	87	95	4,455	4,597	4,459	4,335
16	459	398	97	93	97	3,454	3,516	3,199	3,150
17	426	339	91	83	91	3,847	3,499	3,315	3,201
18	417	331	91	87	91	4,694	3,956	4,124	4,006
19	306	293	95	85	91	3,916	3,603	3,358	3,252
20	376	387	91	87	92	4,464	3,191	3,009	2,996
21	388	400	73	67	71	3,978	3,793	3,656	3,603
22	317	266	121	102	109	3,837	3,900	3,705	3,726
23	319	282	91	51	91	3,921	3,927	3,676	3,514
24	371	339	93	84	93	3,631	3,921	3,432	3,293
25	333	295	92	87	91	3,775	3,455	3,294	3,240
26	308	258	91	84	91	3,728	3,601	3,364	3,260
27	307	298	91	86	91	4,037	3,546	3,292	3,138
28	324	329	91	84	91	4,435	4,651	4,559	4,487
29	310	323	87	79	85	4,971	5,019	4,826	4,787
30	381	370	91	87	91	3,449	3,321	3,153	3,150
Total	10,880	10,515	2,831	2,586	2,829	122,895	114,603	107,828	105,075

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

September 2013								
Reach No.	Operating Pool			Turnout	Deliveries			
	Beginning and Ending		Total Diversions		Table A	2012 Transfer		
	No.	Structure	Mile		2013 Transfer	Pool MP		
7	21	Check No. 21	172.40		104,616			
8C	22		Empire West Side ID TL - A	0				
				0				
				347				
			172.66		347			
			175.18	769	769			
			177.54	127		1/ 127		
			180.64	0				
			180.65	290	39	131		
			182.99	1,085		276		
			183.00	0		3/ 809		
8D			County of Kings TL-B	0				
			184.00	Dudley Ridge WD - Paramount	1			
			184.63	Coastal Branch	10,880			
			184.78	Dudley Ridge WD - 3	1,197	1,197		
				Dudley Ridge Reach 8D Total:	3,469	0		
31A	8D			Tulare Lake Basin WSD Total:	347	808		
					347	131		
					0	1,473		
						1,057		
						0		
				Check No. 22	184.82	0		
9	23	Kern County Water Agency	189.69	Lost Hills Water Dist. - 1	5,563			
			191.18	Lost Hills Water Dist. - 2	1,369	1,503		
			194.22	Lost Hills Water Dist. - 3	891	1,369		
			196.40	Berrenda Mesa - 2	309	891		
			196.75	Lost Hills Water Dist. - 4	2,065	309		
				K.C.W.A. Reach 9 Subtotal:	10,197	2,065		
					0	6,137		
10A	24				0	0		
			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	706	706		
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	739	32		
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	3	707		
			206.99	Kern County Water Agency Semitropic WSD - 3	49	3		
			Check No. 24	207.94		49		
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	2,154	2,154		
			209.78	Kern National Wildlife Refuge USBR BV-1B	4,417			
				Kern County Water Agency Buena Vista WSD 1B	389	6/ 4,417		
10A	25			KCWA Semitropic WSD	533	389		
			209.80	KCWA Semitropic WSD Penstocks	0	533		
				USBR Total:	0	0		
				K.C.W.A. Reach 10A Subtotal:	4,573	0		
					3	738		
						3,832		
						0		
						0		

1/ Yuba Dry Purchase.

2/ Includes 59 AF of Yuba Dry Purchase and 61 AF of Article 56C.

3/ Includes 206 AF of Yuba Dry Purchase, 361 AF of Conveyance of non-project water Article 55 and 242 AF of 2012/2013 Table A Transfer.

4/ Article 56C.

5/ General conveyance through an exchange.

6/ Kern National Wildlife Refuge, USBR.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet) September 2013							
Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries		
	Beginning and Ending				Table A	2012 Transfer	2013 Transfer
	No.	Structure	Mile		Pool MP	Other	
11B	25		210.75	Kern County Water Agency Belridge - 2	0		
			214.11	Kern County Water Agency Belridge - 3	508		508
			216.62	Kern County Water Agency Belridge - 4	0		
			217.13	Kern County Water Agency Belridge - 5A-C	11,292		575
				Kern County Water Agency Belridge - 5D	162	162	2,830
			Check No. 25	217.79			
				K.C.W.A. Reach 11B Subtotal:	11,962	162	0
12D	26	Kern County Water Agency	219.58	Belridge - 6	0		
				West Kern - 3	522	522	
			Check No. 26	224.92			
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0		
			Check No. 27	231.73			
	28		235.75	Kern County Water Agency Buena Vista - 2	0		
				Kern County WA CVC	984	284	
				Buena Vista WSD CVC-2 T429	83	83	
			238.04	Tulare Co.	0		
				Lower Tule River	0		
				Fresno Co.	0		
				Pixley ID	0		
				Hacienda			
				DWR Wells	0		
			Check No. 28	238.11			
13B	29		238.19	1/ Arvin Edison Total:	0	0	0
				Reach 12E Subtotal:	1,067	367	0
				Kern Water Bank Inflow	0		
				Kern Water Bank Outflow	0		
			241.02	Kern River Intertie (inflow)	0		
			242.85	KCWA Buena Vista WSD - 7	0		
				KCWA Buena Vista WSD - 5	123		123
	30		243.09	Kern County Water Agency Buena Vista - 3	0		
			Check No. 29	244.54			
				Kern County Water Agency Buena Vista - 4	0		
14A	31		249.85	Buena Vista Pumping Plant	122,895		
				K.C.W.A. Reach 13B Subtotal:	123	0	0
			254.47	Kern County Water Agency West Kern - 2	0		
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	212		212

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID and Pixley ID.

2/ Includes 718 AF Recovery of same contractors pumpin, 800 AF Operational Exchange and 6,369 AF of Yuba Dry Purchase.

3/ Transfer of CVC contractor water to Arvin-Edison WSD.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	2012 Transfer	2013 Transfer	Pool MP	Other		
	No.	Structure										
14A	31	Check No. 31	256.14	Kern County Water Agency Wheeler Ridge-Maricopa - 3	578	0	0	0	578	0		
	32		258.61									
			260.44									
			261.72									
						KCWA Reach 14A Subtotal:	2,534	0	2,534	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,604	0	0	0	3,604	0		
			266.91									
			267.36									
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,014	0	0	0	2,014	0		
			271.27									
			Reach 14B Total:		6,352	0	0	0	6,352	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,605	0	0	0	1,605	0		
			276.09									
			277.30									
			Reach 14C Total:		1,186	0	0	0	2,267	1,186		
				Reach 14C Total:		3,453	0	0	0	3,453		
15A	36	Teerink Pumping Plant	278.13	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	114,603	0	0	0	114,603	0		
			279.02									
			280.06									
			Reach 15-A Total:		1,398	190	0	0	1,398	0		
				Reach 15-A Total:		1,924	190	0	0	1,734		
16A	37	Chrisman Pumping Plant	280.36	Kern County Water Agency Wheeler Ridge-Maricopa - 11	107,828	0	0	0	107,828	0		
			282.06									
			283.95									
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	34	34	0	0	34	0		
			286.39									
			287.06									
				Reach 16A Total:		0	0	0	0	0		
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	61	61	0	0	61	0		
			290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	717	717	0	0	717	0		
			293.07									
			K.C.W.A. Reach 16A Subtotal:		172	172	0	0	172	0		
			K.C.W.A. Reach 16A Subtotal:		959	959	0	0	959	0		
17E	Edmonston Pumping Plant			K.C.W.A. Reach 16A Subtotal:		2,009	2,009	0	0	0		
			K.C.W.A. Reach 16A Subtotal:		105,075	105,075	0	0	0	0		

1/ MWD Table A sent to Arvin-Edison.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

September 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	2012 Transfer	2013 Transfer	Pool MP	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		10,880						
		Las Perillas Pumping Plant	1.16		10,880						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		10,515						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	98	98					
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	609		609				
			14.83	Kern County Water Agency Berrenda Mesa - 1	7,163		7,163				
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		2,831						
				K.C.W.A. Reach 31A Subtotal:	7,772	0	7,772	0	0	0	
				K.C.W.A. Total:	52,488	3,253	14,647	4,915	15,840	13,833	
33A	C-7	Bluestone Pumping Plant	19.05		2,586						
	C-8	Polonio Pass Pumping Plant	26.54		2,829						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,481	617				1 / 1,864	
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	267	267					
		Energy Dissipater	78.12								
	Lopez T.O.	85.86		SLOCFC & WCD	0						
35	C-12			CCWA Total:	2,748	884	0	0	0	1,864	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0						
	Tank Site 5	115.42									

1/ Article 14B.

Table 24. Southern Field Division Plant Data

(in acre-feet)

September 2013

Date	West Branch							East Branch							East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	1,700	825	0	0	946	1,212	1,818	0	0	1,314	1,487	0	0	1,245	92	59	32
2	904	829	0	0	1,108	1,383	1,785	0	0	1,464	1,619	0	0	1,189	92	58	32
3	1,338	1,474	0	0	4,152	660	1,562	0	0	1,350	1,354	0	0	1,288	83	58	31
4	1,593	1,474	0	0	3,765	1,410	1,438	0	0	1,262	1,046	0	0	1,256	66	45	32
5	2,287	2,692	0	0	3,560	1,949	1,082	0	0	1,049	1,079	0	0	1,396	81	46	26
6	2,393	3,193	0	0	3,336	576	1,190	0	0	1,052	979	0	0	1,228	86	58	32
7	949	552	0	0	2,386	1,644	1,839	0	0	1,706	1,677	0	0	1,449	87	58	32
8	1,422	665	0	0	942	1,748	2,217	0	0	2,041	2,181	0	0	1,376	92	57	32
9	1,915	2,562	0	0	2,345	1,635	1,552	0	0	1,059	1,054	0	0	1,552	70	43	32
10	2,183	2,263	0	0	2,616	0	1,424	0	0	1,112	1,032	0	0	1,489	99	52	32
11	2,120	2,140	0	0	2,961	0	1,439	0	0	1,108	1,085	0	0	1,240	85	57	32
12	2,110	2,190	0	0	3,649	0	1,391	0	0	1,106	1,011	0	0	1,370	94	58	32
13	2,166	2,190	0	0	3,010	0	1,241	0	0	1,015	1,016	0	0	1,396	88	58	33
14	2,766	2,119	0	0	796	0	1,948	0	0	1,673	1,521	0	0	1,250	85	58	33
15	2,766	2,119	0	0	1,743	1,525	1,573	0	0	1,425	1,523	0	0	1,371	96	58	33
16	1,718	1,832	0	0	2,749	640	1,426	0	0	1,238	1,242	0	0	1,240	85	57	32
17	1,749	1,644	0	0	1,959	755	1,675	0	0	1,450	1,424	0	0	1,263	69	57	32
18	1,669	1,779	0	0	3,214	0	2,260	0	153	2,014	1,970	0	0	1,519	54	49	32
19	1,740	1,779	0	0	4,144	0	1,247	0	218	1,615	1,628	0	0	1,257	78	59	32
20	1,470	1,824	0	0	0	0	444	0	1,017	1,174	1,095	0	0	1,232	58	53	32
21	1,863	1,825	0	0	0	0	1,447	0	0	1,264	1,352	0	0	1,109	63	60	32
22	2,017	1,779	0	0	1,674	0	1,707	0	0	1,515	1,466	0	0	1,172	71	58	32
23	2,076	2,035	0	0	3,236	779	1,446	0	0	1,264	1,261	0	0	1,134	67	58	32
24	1,887	2,218	0	0	2,751	0	1,281	0	0	1,109	1,136	0	0	1,055	61	58	32
25	2,130	2,225	0	0	1,521	0	1,163	0	0	993	1,080	0	0	986	76	58	32
26	2,080	2,219	0	0	2,853	0	1,290	0	0	1,177	1,083	0	0	1,018	61	58	32
27	2,003	2,190	0	0	2,121	0	1,250	0	0	927	853	0	0	1,012	64	58	33
28	2,854	2,190	0	0	1,182	0	1,537	0	0	1,479	1,552	0	0	1,072	66	58	33
29	3,250	2,190	0	0	2,115	0	1,669	0	0	1,488	1,373	0	0	1,083	66	58	33
30	2,076	2,190	0	0	2,985	42	992	0	0	865	1,193	0	0	1,055	77	58	32
Total	59,194	57,206	0	0	69,819	15,958	44,333	0	1,388	39,308	39,372	0	0	37,302	2,312	1,681	958

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project			To Piru Creek		
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Aug 31	2,575	165,676											
1	2,576	166,706	1,030	1,212	825	0	4	946	0	4	0	-61	
2	2,576	167,728	1,022	1,383	829	0	4	1,108	0	4	0	-82	
3	2,575	165,447	-2,281	660	1,474	0	3	4,152	1	4	0	-261	
4	2,574	164,485	-962	1,410	1,474	0	2	3,765	0	4	0	-79	
5	2,575	165,523	1,038	1,949	2,692	0	2	3,560	1	4	0	-40	
6	2,575	165,815	292	576	3,193	0	2	3,336	1	4	0	-138	
7	2,575	165,714	-101	1,644	552	0	2	2,386	1	4	0	92	
8	2,576	167,127	1,413	1,748	665	0	2	942	0	4	0	-56	
9	2,577	168,870	1,743	1,635	2,562	0	2	2,345	1	4	0	-106	
10	2,577	168,472	-398	0	2,263	0	3	2,616	0	4	0	-44	
11	2,576	167,639	-833	0	2,140	0	3	2,961	0	4	0	-11	
12	2,575	166,082	-1,557	0	2,190	0	3	3,649	1	4	0	-96	
13	2,574	165,194	-888	0	2,190	0	3	3,010	0	4	0	-67	
14	2,575	166,579	1,385	0	2,119	0	3	796	1	4	0	64	
15	2,577	168,292	1,713	1,525	2,119	0	3	1,743	1	4	0	-186	
16	2,576	167,946	-346	640	1,832	0	3	2,749	0	4	0	-68	
17	2,577	168,369	423	755	1,644	0	3	1,959	1	4	0	-15	
18	2,576	167,012	-1,357	0	1,779	0	4	3,214	1	4	0	79	
19	2,574	164,422	-2,590	0	1,779	0	4	4,144	0	4	0	-225	
20	2,575	166,286	1,864	0	1,824	0	4	0	0	4	0	40	
21	2,577	168,151	1,865	0	1,825	0	5	0	1	4	0	40	
22	2,577	168,138	-13	0	1,779	0	5	1,674	0	4	0	-119	
23	2,576	167,524	-614	779	2,035	0	4	3,236	0	4	0	-192	
24	2,576	166,859	-665	0	2,218	0	4	2,751	1	4	0	-131	
25	2,576	167,613	754	0	2,225	0	4	1,521	0	4	0	50	
26	2,576	166,898	-715	0	2,219	0	4	2,853	1	4	0	-80	
27	2,576	166,821	-77	0	2,190	0	4	2,121	1	4	0	-145	
28	2,576	167,767	946	0	2,190	0	4	1,182	1	4	0	-61	
29	2,576	167,767	0	0	2,190	0	4	2,115	0	4	0	-75	
30	2,576	166,961	-806	42	2,190	0	5	2,985	1	4	0	-53	
Total				1,285	15,958	57,206	0	102	69,819	16	120	0	-2,026

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Aug 31	1513.22	20,441								
1	1512.47	20,147	-294	946	0	1,212	0	0	-28	
2	1511.83	19,895	-252	1,108	0	1,383	0	0	23	
3	1517.95	22,375	2,480	4,152	0	660	0	1,039	27	
4	1513.70	20,636	-1,739	3,765	0	1,410	0	4,120	26	
5	1510.09	19,219	-1,417	3,560	0	1,949	0	3,034	6	
6	1511.63	19,817	598	3,336	0	576	0	2,115	-47	
7	1513.19	20,433	616	2,386	0	1,644	0	0	-126	
8	1511.30	19,688	-745	942	0	1,748	0	0	61	
9	1508.93	18,775	-913	2,345	0	1,635	0	1,599	-24	
10	1507.78	18,340	-435	2,616	0	0	0	3,074	23	
11	1508.55	18,631	291	2,961	0	0	0	2,647	-23	
12	1510.22	19,269	638	3,649	0	0	0	3,012	1	
13	1509.39	18,950	-319	3,010	0	0	0	3,328	-1	
14	1510.26	19,284	334	796	0	0	0	463	1	
15	1510.79	19,489	205	1,743	0	1,525	0	0	-13	
16	1513.33	20,488	999	2,749	0	640	0	1,246	136	
17	1508.02	18,430	-2,058	1,959	0	755	0	3,221	-41	
18	1509.54	19,008	578	3,214	0	0	0	2,553	-83	
19	1511.63	19,817	809	4,144	0	0	0	3,324	-11	
20	1507.38	18,190	-1,627	0	0	0	0	1,626	-1	
21	1507.38	18,190	0	0	0	0	0	0	0	
22	1511.37	19,715	1,525	1,674	0	0	0	0	-149	
23	1511.70	19,844	129	3,236	0	779	0	2,340	12	
24	1510.05	19,203	-641	2,751	0	0	0	3,377	-15	
25	1506.89	18,007	-1,196	1,521	0	0	0	2,745	28	
26	1510.93	19,544	1,537	2,853	0	0	0	1,291	-25	
27	1510.44	19,354	-190	2,121	0	0	0	2,358	47	
28	1507.18	18,115	-1,239	1,182	0	0	0	2,380	-41	
29	1512.67	20,226	2,111	2,115	0	0	0	0	-4	
30	1514.21	20,841	615	2,985	0	42	0	2,326	-2	
Total				400	69,819	0	15,958	0	53,218	-243

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow				Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows	Released To Castaic Lagoon		
				Natural	Project						
Aug-02	1497.22	285,382									
1	1496.30	283,477	-1,905	0	0	0	1,802	0	0	-103	
2	1495.42	281,661	-1,816	0	0	0	1,802	0	0	-14	
3	1495.09	280,982	-679	0	1,039	0	1,850	0	0	132	
4	1496.17	283,208	2,226	0	4,120	0	1,808	0	0	-86	
5	1496.73	284,366	1,158	0	3,034	0	1,797	0	0	-79	
6	1496.94	284,801	435	0	2,115	0	1,819	0	0	139	
7	1495.98	282,815	-1,986	0	0	0	1,842	0	0	-144	
8	1495.14	281,085	-1,730	0	0	0	1,781	0	0	51	
9	1495.05	280,899	-186	0	1,599	0	1,738	0	0	-47	
10	1495.61	282,052	1,153	0	3,074	0	1,804	0	0	-117	
11	1496.01	282,877	825	0	2,647	0	1,754	0	0	-68	
12	1496.61	284,118	1,241	0	3,012	0	1,750	0	0	-21	
13	1497.33	285,610	1,492	0	3,328	0	1,803	0	0	-33	
14	1496.66	284,221	-1,389	0	463	0	1,755	0	0	-97	
15	1495.82	282,485	-1,736	0	0	0	1,732	0	0	-4	
16	1495.53	281,887	-598	0	1,246	0	1,737	0	0	-107	
17	1496.21	283,290	1,403	0	3,221	0	1,803	0	0	-15	
18	1496.53	283,952	662	0	2,553	0	1,775	0	0	-116	
19	1497.21	285,361	1,409	0	3,324	0	1,815	0	0	-100	
20	1497.22	285,382	21	0	1,626	0	1,716	0	0	111	
21	1496.42	283,725	-1,657	0	0	0	1,558	0	0	-99	
22	1495.62	282,073	-1,652	0	0	0	1,554	0	0	-98	
23	1495.93	282,712	639	0	2,340	0	1,646	0	0	-55	
24	1496.77	284,449	1,737	0	3,377	0	1,694	0	0	54	
25	1497.21	285,361	912	0	2,745	0	1,722	0	0	-111	
26	1496.90	284,718	-643	0	1,291	0	1,720	0	0	-214	
27	1497.18	285,299	581	0	2,358	0	1,657	0	0	-120	
28	1497.46	285,880	581	0	2,380	0	1,765	0	0	-34	
29	1496.66	284,221	-1,659	0	0	0	1,675	0	0	16	
30	1497.01	284,946	725	0	2,326	0	1,624	0	0	23	
Total				-436	0	53,218	0	52,298	0	-1,356	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)							September 2013				
Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending		No.			Table A	Rec.	Article 56	Article 14B	Other	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		59,194						
29F	W2	Quail Lake	5.02	AVEK Water Agency Lower Quail Canal Temp (427)	Removed 5	5					
29G		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
		Warne Power Plant	14.07	(0 AF of flow through Gorman Creek Imp. Channel)	57,206						
29H	W3	Pyramid Lake		USFS Pyramid Recreation (T300)	0						
				United WA (T300)	0						
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0	16					
		Castaic Power Plant	25.82	(15,958 AF pump-back) 2/	69,819						
29J	W4	Elderberry Forebay									
		Forebay Dam	28.12								
	W5	Castaic Lake		California State Park							
				Castaic Lake Recreation (T301)	12	12					
		Castaic Dam	31.47								
				MWDSC 78" & 132" (T302)	47,142	32,428				3/ 14,714	
				Castaic Lake WA 18", 24" & 54" (T303)	2,085	1,848	237				
				Castaic Lake WA (T304)	3,023		3,023				
				MWD-Ventura Co. WPD (T302)	36	36					
					0						
				Disposition of Natural inflows	0						
				Releases to Castaic Lagoon	0						
				Reach 30 Subtotal:	52,298	34,312	12	3,260	0	14,714	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0						
		Castaic Lagoon Outlet	31.87		179						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ This includes 2,877 AF of Dry Year Purchase water and 10,000 AF of Multiple Pool water and 1,837 AF of Semi Tropic bank recovery.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/		
							Project			Del. To Mojave W.A.	Natural To Mojave River				
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel						
Aug 31	3351.03	71,150													
1	3351.28	71,387	237	1,487	0	0	5	1	1,245		0	1	10		
2	3351.73	71,815	428	1,619	0	0	5	0	1,189		1	4	10		
3	3351.80	71,882	67	1,354	0	0	6	0	1,288		0	7	10		
4	3351.54	71,634	-248	1,046	0	0	4	1	1,256		0	-33	10		
5	3351.17	71,283	-351	1,079	0	0	4	0	1,396		1	-29	10		
6	3350.86	70,989	-294	979	0	0	4	0	1,228		0	-41	10		
7	3351.11	71,226	237	1,677	0	0	4	0	1,449		0	13	10		
8	3351.77	71,853	627	2,181	0	0	3	1	1,376		1	-173	10		
9	3351.31	71,416	-437	1,054	0	0	4	0	1,552		0	65	10		
10	3350.84	70,970	-446	1,032	0	0	4	0	1,489		0	15	10		
11	3350.54	70,686	-284	1,085	0	0	5	0	1,240		1	-123	10		
12	3350.07	70,242	-444	1,011	0	0	4	1	1,370		0	-80	10		
13	3349.63	69,829	-413	1,016	0	0	4	0	1,396		0	-29	10		
14	3349.87	70,054	225	1,521	0	0	4	1	1,250		0	-41	10		
15	3350.02	70,195	141	1,523	0	0	5	0	1,371		0	-6	10		
16	3350.02	70,195	0	1,242	0	0	4	1	1,240		0	3	10		
17	3350.09	70,261	66	1,424	0	0	6	0	1,263		1	-88	10		
18	3350.54	70,686	425	1,970	0	0	6	0	1,519		0	-20	10		
19	3350.91	71,036	350	1,628	0	0	6	0	1,257		0	-15	10		
20	3350.77	70,903	-133	1,095	0	0	6	1	1,232		1	12	10		
21	3351.00	71,121	218	1,352	0	0	5	0	1,109		0	-20	11		
22	3351.56	71,653	532	1,466	0	0	5	0	1,172		0	243	11		
23	3351.30	71,406	-247	1,261	0	0	7	0	1,134		1	-366	11		
24	3351.38	71,482	76	1,136	0	0	4	1	1,055		0	0	11		
25	3351.31	71,416	-66	1,080	0	0	6	0	986		0	-154	11		
26	3351.30	71,406	-10	1,083	0	0	7	0	1,018		1	-67	11		
27	3351.06	71,178	-228	853	0	0	5	0	1,012		0	-64	11		
28	3351.60	71,691	513	1,552	0	0	5	1	1,072		0	39	11		
29	3351.91	71,987	296	1,373	0	0	6	0	1,083		0	12	11		
30	3351.99	72,063	76	1,193	0	0	5	0	1,055		0	-57	11		
Total				913	39,372	0	0	148	9	37,302	0	8	-992	310	

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

September 2013

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Aug 31	1561.04	70,830				
1	1561.02	70,793	-37		55	
2	1561.13	70,996	203		66	
3	1561.21	71,143	147		55	
4	1561.26	71,235	92		55	
5	1561.35	71,402	167		54	
6	1561.40	71,494	92		55	
7	1561.48	71,642	148		55	
8	1561.57	71,809	167		54	
9	1561.62	71,902	93		61	
10	1561.70	72,050	148		55	
11	1561.79	72,217	167		55	
12	1561.79	72,217	0		55	
13	1561.90	72,421	204		55	
14	1561.90	72,421	0		56	
15	1561.90	72,421	0		56	
16	1561.90	72,421	0		56	
17	1561.90	72,421	0		56	
18	1562.01	72,626	205		56	
19	1562.01	72,626	0		56	
20	1562.14	72,868	242		56	
21	1562.14	72,868	0		56	
22	1562.23	73,036	168		65	
23	1562.23	73,036	0		80	
24	1562.23	73,036	0		65	
25	1562.23	73,036	0		65	
26	1562.14	72,868	-168		65	
27	1562.23	73,036	168		65	
28	1561.98	72,570	-466		83	
29	1562.01	72,626	56		104	
30	1561.98	72,570	-56		110	
Total			1,740	0	1,880	3,620

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

September 2013

(In acre-feet)		Deliveries							
Reach No.	Operating Pool		Turnout	Total Diversions	Table A	Rec.	Article 56C	Transfer	Local
	Beginning and Ending								
	No.	Structure	Mile						
17E	40	Edmonston Pumping Plant	293.45		105,075				
	41		298.65	KCWA Tej.-Cas	Stub				
17F		Check No. 41	303.41						
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0				
		Check No. 42	304.99						
18A	43	Alamo Powerplant	305.73	(Includes 44,333 AF generation, 0 AF plant bypass, and 1,388 AF Tehachapi Bypass)	45,721				
			306.71	AVEK 305th Street West (T287)	0				
19	44		308.05	AVEK 294th Street West (T267)	120	120			
		Check No. 43	309.70						
19	44		311.84	LADWP Connection	0				
			313.50	AVEK 245th Street West (T269)	0				
19	45	Check No. 44	314.81						
			314.93	AVEK 235th Street West (T270)	0				
19	45		315.57	AVEK 225th Street West (T271)	0				
		Check No. 45	319.74						
19	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	0				
				MWA Fairmont (T272)		125			
19	46			Palmdale Water District (272)	1		1 / 1		
		Check No. 46	323.84						
		Reach 19 Total:			246	245	0	1	0
20A	47	Check No. 47	326.77						
20A	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	30	30			
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved				
20A	49	Check No. 48	330.82						
		Check No. 49	335.93						
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	4,002	4,002			
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	68	68			
20B	50		340.92	AVEK WA-Temp (T387)	0				
		Check No. 50	341.51						
20B	51		342.06	AVEK WA-Temp (T386)	0				
		Check No. 51	342.07						
20B	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0				
		Check No. 52	343.74						
20B	52		346.98	Palmdale WD (T276) Temp.	331	331			
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	134	134			
21	53	Check No. 53	348.17						
		Check No. 54	350.25						
21	55	Check No. 55	352.70						
		Check No. 56	354.76						
21	57		354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0				
			354.97	Palmdale WD (T276)	0				
22A	58		354.97	Palmdale WD (T391)	0				
		Check No. 57	356.93						
22A	58	Antelope Valley-East Kern WA	357.60	95th Street East (T279)	0				
			357.72	96th Street East (T280)	0				
			359.76	East Side Treatment Plant (T281)	325	325			

1/ Exchange of Article 56C Carryover.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

September 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Article 56C	Transfer	Local	Purch. Pool A		
	No.	Structure	Mile										
22B	58	Pearblossom Pumping Plant	360.61		39,308								
	59	Check No. 59	366.09										
	60		366.50		AVEK Big Rock Siphon (T368)		0						
		Check No. 60	373.94				0						
	61	Check No. 61	379.00				0						
	62	Check No. 62	384.26				0						
	63		389.20		MWA (T282)	358	358	3					
		Check No. 63			MWA (T422)	3							
	64	Check No. 64	395.10			0							
	65	Check No. 65	400.32			0							
23	66		401.10		Mojave Water Agency	48	48						
					Morongo 24" & 42" (T284)								
24	Check No. 66		403.41										
	Mojave Siphon		405.58		Las Flores Ranch Exchange	310				310			
25	Mojave Siphon Power Plant		405.65			39,372							
	Silverwood Lake		407.65		MWA CS DAM (T288)	0							
					California State Park								
					Silverwood (T288)	9							
			407.70		Crestline-Lake Arrowhead WA								
26A	Devil Canyon Afterbay Control Structures				State Project Water (T289)	148	148	9					
					Non-Project Water (T289)	0							
						37,302							
EBX	East Branch Extension		412.88		MWD-Rialto (T290)	698	698	4,316			1/ 3,657		
					MWD-Rialto (T293)	7,973							
					MWD-Rialto (T294)	0							
					Desert Water Agency Transfer (T293)	0							
					Coachella Valley WD (T293)	10,525							
					Coachella Valley WD (T294)	0	3,525				2/ 7,000		
					San Gabriel Valley MWD (T290)	0							
					MWD EBX-1 (T290)	0							
					MWD EBX-1 (T291)	0							
					San Bernardino Valley MWD (T290)	177							
28G	Santa Ana Valley Pipeline		425.46		San Bernardino Valley MWD (T291)	1,215	523				3/ 177		
					San Bernardino Valley MWD (T403)	631							
					San Bernardino Valley MWD (T407)	726							
					San Gorgonio Pass WA (T413)	958							
					MWD Total:	59,360							
							458	500			3/ 1,215		
28H	Lake Perris		433.06		Coachella Valley (T295)	6,349	6,349						
					Coachella Valley (T296)	0							
					Desert Water Agency (T295)	1,968							
					MWD-SC Box Springs (T295)	0							
					MWD-SC (T296)	1,701							
			440.05		MWD-SC (T297)	148	1,701	148					
					MWD-SC 54" & 78" (T299)	1,698							
					Coachella Valley (T2969)	0							
					Desert Water Agency (T299)	0							
					Ca. St. Pk. Lake Perris Rec. (T298)	34							
28J			442.00		MWD Total:	59,360	34	40,989	0	0	14,714		

1/ Includes 2,957 AF of Table A Exchange and 700 AF of Arvin-Edison water bank recovery.

2/ General Conveyance through an exchange.

3/ Kern-Delta Recovery supplied through an exchange.

4/ SWP construction water (T428).

Table 32. Water Quality At Selected SWP Locations										
Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	39	90	81	67	70	67	61	64	70
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.03	0.38	0.39	0.36	0.38	0.35	0.36	0.23
Calcium	mg/l	9	15	22	16	17	16	15	16	20
Chloride	mg/l as C	1.0	18.0	118.0	121.0	117.0	119.0	117.0	111.0	76.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	37.000	92.000	127.000	102.000	104.000	103.000	99.000	97.000	96.000
Iron	mg/l	0.006	0.011	0.011	0.006	0.012	0.012	<0.005	0.005	0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	13	17	15	15	15	15	14	12
Manganese	mg/l	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.160	0.360	0.030	0.050	0.020	0.030	0.040	0.050
Organic Carbon, Dissolved	mg/l	NR	4	3	3	3	3	3	2	3
Organic Carbon, Total	mg/l as N	NR	4.500	3.200	2.700	3.000	2.700	2.500	2.500	3.900
Phosphate-Ortho	mg/l as P	<0.01	0.18	0.08	0.07	0.08	0.07	0.05	0.06	0.04
Phosphorus-Total	mg/l	0	0.22	0.10	0.07	0.08	0.07	0.06	0.10	0.09
Selenium	mg/l	<0.001	<0.001	0.00	0.00	<0.001	0.00	<0.001	<0.001	<0.001
Sodium	mg/l	4.000	22.000	83.000	76.000	75.000	76.000	77.000	70.000	57.000
Specific Conductance	µS/cm	92	283	662	604	604	603	587	579	479
Sulfate	mg/l	2	17	42	24	28	25	26	25	31
Total Dissolved Solids	mg/l	53	161	368	334	332	333	325	320	262
Turbidity	NTU	1	28	6	6	3	2	2	6	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

September 2013

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l			
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
30	1	5.88	4.07	5,539	5,539	9,903	3.99	9.11	0.64	0.70	1.58	1.45	0.58	0.42	0.53	165
	2	6.10	4.27	5,041	5,290	9,558	4.05	9.50	0.64	0.69	1.55	1.48	0.59	0.43	0.53	168
	3	6.02	4.19	6,505	5,695	9,484	3.35	9.38	0.63	0.66	1.52	1.48	0.58	0.39	0.55	175
	4	5.94	4.13	6,278	5,841	9,264	3.21	9.27	0.61	0.62	1.46	1.48	0.59	0.37	0.55	180
	5	5.82	4.13	6,215	5,916	9,288	3.14	9.08	0.61	0.60	1.43	1.48	0.58	0.36	0.56	188
	6	5.73	4.04	6,509	6,015	9,503	2.99	8.57	0.56	0.58	1.40	1.48	0.59	0.35	0.56	195
	7	5.78	4.15	6,666	6,108	9,665	3.05	8.87	0.64	0.58	1.40	1.48	0.61	0.36	0.57	198
	8	6.02	4.34	6,690	6,181	9,524	3.29	9.52	0.69	0.59	1.45	1.48	0.63	0.40	0.57	202
	9	6.25	4.40	6,512	6,217	9,275	3.41	9.76	0.76	0.60	1.44	1.48	0.63	0.48	0.58	201
	10	6.66	4.71	6,974	6,293	8,934	3.87	11.24	1.10	0.64	1.54	1.49	0.64	0.48	0.59	206
	11	6.45	4.65	6,706	6,331	7,995	3.61	10.51	0.84	0.66	1.45	1.49	0.61	0.49	0.60	207
	12	6.46	4.49	6,880	6,376	7,896	3.22	9.43	0.74	0.68	1.32	1.47	0.60	0.50	0.61	207
	13	6.44	4.50	6,258	6,367	7,396	3.08	9.19	0.76	0.70	1.29	1.46	0.60	0.45	0.60	206
	14	6.41	4.48	6,586	6,383	6,874	2.98	9.12	0.81	0.72	1.25	1.43	0.61	0.40	0.62	206
	15	6.29	4.40	6,475	6,389	6,563	2.92	8.96	0.84	0.73	1.20	1.41	0.61	0.38	0.63	205
	16	6.32	4.75	6,094	6,371	6,548	2.95	8.70	0.80	0.74	1.13	1.38	0.60	0.37	0.61	202
	17	6.19	4.28	6,327	6,368	6,714	2.72	8.30	0.77	0.75	1.07	1.34	0.62	0.34	0.61	203
	18	5.91	4.07	5,869	6,340	6,391	2.47	7.61	0.62	0.75	1.01	1.31	0.63	0.33	0.60	205
	19	5.79	4.10	4,899	6,264	6,137	2.44	7.58	0.66	0.76	1.00	1.28	0.63	0.33	0.61	207
	20	6.08	4.28	4,562	6,179	5,894	2.71	8.98	0.85	0.78	1.03	1.26	0.64	0.33	0.60	207
	21	6.16	4.32	3,735	6,063	4,995	2.86	8.96	0.86	0.79	1.02	1.23	0.64	0.33	0.60	209
	22	6.03	4.23	5,659	6,045	5,485	2.62	8.33	0.62	0.79	0.96	1.19	0.59	0.52	0.60	210
	23	5.95	4.12	5,066	6,002	5,803	2.53	7.89	0.00	0.00	0.92	1.16	0.59	0.61	0.60	206
	24	6.02	4.18	4,942	5,958	5,791	2.76	8.73	0.00	0.00	0.96	1.11	0.59	0.56	0.59	209
	25	5.94	4.30	4,585	5,903	5,558	2.90	8.87	0.00	0.00	0.97	1.08	0.57	0.53	0.58	209
	26	5.61	4.16	4,430	5,846	5,440	2.62	7.89	0.35	0.00	0.92	1.05	0.58	0.51	0.57	212
	27	5.32	3.91	4,202	5,785	5,077	2.37	7.26	0.56	0.00	0.85	1.02	0.55	0.48	0.58	212
	28	5.37	3.89	3,921	5,719	4,835	2.49	7.81	0.59	0.00	0.86	0.99	0.55	0.47	0.58	202
	29	5.46	3.96	4,304	5,670	4,697	2.62	8.79	0.66	0.00	0.85	0.97	0.55	0.47	0.56	202
	30	5.44	3.97	4,067	5,617	4,523	2.76	9.20	0.72	0.00	0.85	0.95	0.54	0.47	0.52	202

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/	September 2013
North Bay Aqueduct At Barker Slough Pumping Plant	September 18, 2013	none	0.00	
California Aqueduct At Banks Pumping Plant	September 18, 2013	none	0.00	
O'Niell Forebay Outlet Check 13	September 17, 2013	none	0.00	
Delta Mendota Canal At McCabe Road	September 17, 2013	none	0.00	
California Aqueduct Near Kettleman City (Check 21)	September 17, 2013	none	0.00	
California Aqueduct At Near Highway 119 (Check 29)	September 17, 2013	none	0.00	
California Aqueduct at Tehachapi Afterbay (Check 41)	September 18, 2013	none	0.00	
California Aqueduct At Devil Canyon 2nd Afterbay	September 18, 2013	none	0.00	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)		September 2013						
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	4,193,772	0	53,396	41,607	2,975,584	2,681,584	416,738	528
2	4,196,599	0	51,702	40,799	2,739,920	2,445,920	374,580	518
3	6,503,915	0	41,533	35,016	2,801,992	2,507,992	236,201	522
4	7,854,495	0	40,593	33,959	2,973,056	2,679,056	219,503	504
5	7,900,002	0	44,098	37,750	2,866,616	2,572,616	264,481	490
6	7,563,457	0	45,139	38,073	2,782,496	2,488,496	338,807	519
7	6,582,917	0	45,759	38,747	2,119,808	1,825,808	357,804	535
8	6,593,026	0	42,397	35,640	2,120,416	1,826,416	358,943	493
9	2,684,264	9,878	39,411	36,573	2,219,848	1,925,848	290,601	527
10	4,025,197	7,183	42,873	36,546	1,734,512	1,440,512	278,197	512
11	3,118,874	9,460	43,986	36,644	1,613,240	1,319,240	304,695	501
12	2,154,548	7,084	42,684	36,515	1,394,296	1,100,296	358,771	517
13	2,386,747	7,414	41,090	37,089	1,151,488	857,488	361,752	514
14	1,958,473	13,508	33,862	29,903	1,151,784	857,784	358,616	509
15	1,944,998	12,705	31,298	28,052	925,376	631,376	358,289	514
16	3,228,929	8,415	33,785	27,430	1,074,280	780,280	356,450	506
17	2,751,375	3,652	33,653	27,841	1,424,856	1,130,856	356,083	492
18	2,768,766	9,020	38,127	31,057	1,739,080	1,595,080	377,359	478
19	2,588,300	12,639	39,671	32,830	1,597,632	1,303,632	368,343	473
20	2,581,799	4,202	39,247	34,118	1,430,768	1,136,768	362,081	468
21	2,598,739	671	31,063	29,241	1,422,928	1,128,928	361,060	459
22	2,599,817	0	27,479	28,566	1,336,224	1,042,224	361,045	453
23	2,598,398	0	27,805	28,496	1,907,064	1,613,064	362,340	461
24	4,534,508	0	27,465	29,452	2,465,536	2,171,536	358,596	463
25	2,202,376	0	28,526	30,710	2,249,216	1,955,216	291,857	457
26	1,731,290	0	30,236	32,865	2,228,896	1,934,896	291,808	608
27	1,897,797	0	34,316	33,841	1,366,584	1,366,584	291,802	537
28	956,549	0	34,915	34,171	1,397,792	1,397,792	305,936	469
29	956,527	0	36,926	34,595	1,067,160	1,067,160	360,048	468
30	1,910,546	0	31,773	29,554	1,072,640	1,072,640	388,732	456
Total	105,567,000	105,831	1,134,807	1,007,676	55,351,088	47,857,088	10,071,515	14,952

Table 36. San Luis Field Division Energy Data

(in kWh)		September 2013				
Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	865,787	726,787	0	0	1,755,281	555,281
2	815,762	676,762	0	0	1,752,542	1,152,542
3	968,263	829,263	0	0	1,749,616	1,149,616
4	985,192	846,192	0	0	1,307,394	707,394
5	1,018,823	879,823	0	0	1,160,049	56,049
6	1,095,757	956,757	0	0	587,466	35,466
7	970,510	831,510	0	0	1,168,156	64,156
8	947,635	904,635	0	0	1,166,792	62,792
9	917,768	874,768	0	0	828,762	276,762
10	1,029,467	986,467	0	0	1,153,174	49,174
11	1,086,107	1,043,107	221,595	221,595	8,778	8,778
12	1,128,362	1,085,362	0	0	723,030	-380,970
13	1,080,880	1,037,880	779,273	779,273	96,767	4,767
14	1,217,111	1,174,111	780,417	780,417	287,144	11,144
15	914,447	871,447	0	0	16,951	16,951
16	928,417	891,417	584,892	584,892	5,775	5,775
17	950,994	913,994	0	0	17,853	17,853
18	974,057	937,057	0	0	18,106	18,106
19	988,540	951,540	0	0	18,018	18,018
20	841,055	804,055	0	0	17,534	17,534
21	881,469	844,469	284,218	284,218	5,951	5,951
22	905,024	868,024	0	0	588,313	36,313
23	816,232	779,232	54,516	54,516	15,257	15,257
24	922,466	885,466	0	0	1,161,732	609,732
25	766,411	731,411	0	0	1,159,807	55,807
26	971,746	936,746	0	0	806,883	254,883
27	866,354	831,354	0	0	596,629	44,629
28	857,228	822,228	430,023	430,023	682	682
29	944,190	896,190	442,332	442,332	0	0
30	717,439	669,439	435,336	435,336	99	99
Total	28,373,495	26,487,495	4,012,602	4,012,602	18,174,541	4,870,541

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

September 2013									
Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	22,269	56,374	63,507	61,691	63,203	985,864	1,048,743	2,292,323	8,337,789
2	36,318	88,362	64,535	61,664	63,233	789,403	825,620	1,798,511	6,466,419
3	31,120	79,707	81,222	77,064	81,441	918,256	824,990	1,814,054	6,496,011
4	33,022	80,774	70,206	68,284	69,652	905,486	833,159	1,770,505	6,375,213
5	19,761	50,217	64,202	61,207	63,385	1,046,473	999,965	2,174,524	7,836,102
6	26,994	67,029	65,042	62,739	64,661	1,098,027	1,079,487	2,298,131	8,304,066
7	29,803	74,873	69,987	67,441	69,532	876,973	801,097	1,727,869	6,277,635
8	26,818	67,061	63,828	61,890	63,412	969,181	1,041,347	2,273,722	8,287,326
9	27,111	67,579	65,167	61,389	64,608	882,961	899,959	1,921,040	6,894,072
10	30,371	79,356	70,836	69,130	70,702	1,064,434	1,046,567	2,284,469	8,225,874
11	25,793	65,817	67,390	63,950	65,964	1,050,142	1,016,231	2,213,684	7,966,026
12	25,342	63,320	63,452	62,207	63,667	1,080,670	1,083,632	2,277,055	8,146,413
13	28,345	72,373	63,433	60,410	63,374	1,074,028	1,014,026	2,211,803	7,960,950
14	31,955	80,374	63,367	58,979	63,355	1,264,219	1,270,021	2,826,340	10,225,035
15	34,747	86,389	66,281	63,130	65,577	1,076,233	1,199,588	2,673,121	9,726,831
16	36,296	90,131	67,810	67,245	67,480	839,443	922,747	1,995,103	7,081,020
17	32,760	81,328	63,809	60,342	63,360	984,391	914,931	2,001,879	7,188,345
18	32,010	79,675	63,708	62,672	63,390	1,143,743	1,128,892	2,469,885	8,923,824
19	24,796	61,167	66,387	61,374	63,392	937,874	943,801	2,027,993	7,260,705
20	29,975	71,565	63,902	62,791	64,541	874,345	845,188	1,831,676	6,677,154
21	29,076	74,719	51,831	48,877	49,880	957,607	1,006,130	2,224,343	8,038,899
22	24,367	61,974	75,033	72,439	74,945	928,264	1,020,269	2,237,675	8,262,405
23	24,621	61,945	63,496	60,575	63,264	955,375	1,024,704	2,212,474	7,950,042
24	28,200	72,582	64,359	61,033	63,306	891,842	991,229	2,068,693	7,393,815
25	25,528	65,443	64,491	62,745	63,342	903,179	898,432	1,980,011	7,278,363
26	23,706	59,879	63,765	60,521	63,333	905,785	930,134	2,036,540	7,398,000
27	23,702	59,397	63,771	61,678	63,371	989,635	916,441	1,993,464	7,056,072
28	24,852	60,521	63,765	60,966	63,351	1,106,890	1,209,440	2,711,940	10,025,505
29	24,115	59,541	61,058	57,105	59,500	1,194,543	1,305,583	2,916,056	10,680,687
30	29,773	71,216	63,810	63,021	63,705	830,938	870,059	1,908,995	7,037,118
Total	843,546	2,110,686	1,963,452	1,884,559	1,945,926	29,526,201	29,912,413	65,173,878	235,777,716

Table 38. Southern Field Division Energy Data

(in kWh)										September 2013		
Date	West Branch			East Branch				East Branch Extension				
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant		
1	448,858	502,311	1,536,000	213,930	887,304	1,545,793	113,459	57,336	50,141	3,628		
2	239,469	506,858	1,536,000	212,209	990,481	1,478,484	116,159	56,637	49,702	3,625		
3	352,430	896,783	1,536,000	184,953	913,923	1,595,257	102,008	54,055	49,515	3,682		
4	419,171	899,068	1,536,000	169,148	845,064	1,550,786	68,691	43,991	38,271	1,579		
5	597,332	1,545,005	1,536,000	154,734	704,600	1,743,883	81,940	45,265	39,485	1,785		
6	627,946	1,802,704	1,536,000	142,195	704,255	1,529,078	75,292	53,377	49,558	3,222		
7	254,100	290,666	1,536,000	215,430	1,137,839	1,809,781	135,264	53,576	49,471	3,212		
8	373,342	379,431	1,536,000	264,176	1,377,368	1,718,827	171,268	56,292	49,443	3,190		
9	501,058	1,397,312	2,016,000	181,452	712,140	1,902,708	68,942	46,368	37,262	3,286		
10	574,776	1,319,215	2,016,000	155,812	749,516	1,831,457	81,806	56,436	44,434	3,571		
11	556,319	1,282,892	2,016,000	161,092	746,440	1,524,809	85,184	61,044	49,461	3,626		
12	555,828	1,278,680	2,016,000	156,530	744,980	1,681,254	79,166	58,965	49,444	3,603		
13	568,896	1,275,421	2,016,000	142,263	683,841	1,740,172	79,670	55,411	49,453	3,565		
14	722,843	1,241,325	2,016,000	233,265	1,116,857	1,554,451	121,176	53,991	49,445	3,569		
15	694,577	1,242,551	2,016,000	189,598	952,990	1,717,794	121,404	53,739	49,474	3,578		
16	450,614	1,090,363	1,680,000	171,991	828,432	1,539,547	98,674	54,645	49,520	3,604		
17	460,158	939,954	1,680,000	199,064	974,328	1,558,904	110,056	40,306	35,942	3,588		
18	439,391	1,040,364	1,680,000	268,068	1,348,368	1,908,670	149,232	36,978	36,827	3,240		
19	458,428	1,041,007	1,680,000	145,379	1,093,679	1,565,024	123,413	46,490	49,444	2,917		
20	387,941	1,052,881	1,680,000	46,829	787,367	1,530,522	86,810	39,071	44,405	2,910		
21	488,773	1,056,537	1,680,000	160,326	847,160	1,371,956	99,528	40,914	49,291	2,889		
22	526,823	1,037,861	1,680,000	201,995	1,014,920	1,457,478	114,603	40,631	49,260	2,870		
23	542,974	1,161,454	2,016,000	165,004	846,791	1,429,409	100,086	40,627	49,388	2,924		
24	494,195	1,273,304	2,016,000	149,554	743,231	1,260,839	78,347	40,409	49,392	2,942		
25	559,316	1,271,624	2,016,000	133,854	668,520	1,203,390	71,692	40,498	49,372	2,877		
26	544,349	1,270,642	2,016,000	148,977	786,689	1,254,802	71,679	40,536	49,262	2,835		
27	524,307	1,271,657	2,016,000	146,709	626,332	1,230,350	55,588	40,824	49,339	2,791		
28	747,012	1,272,656	2,016,000	187,579	993,281	1,299,964	112,262	41,467	49,357	2,814		
29	850,469	1,280,343	2,016,000	195,969	993,805	1,297,796	102,111	41,392	49,368	2,836		
30	544,081	1,281,474	2,016,000	113,975	582,287	1,268,330	90,795	41,742	49,399	2,875		
Total	15,505,778	33,202,337	54,288,000	5,212,059	26,402,786	46,101,517	2,966,302	1,433,012	1,414,127	93,636		

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.